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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/856,345	05/18/2001	Hilmar Franke	FA-1010	6864

7590 04/15/2005  
E I du Pont de Nemours & Company  
Legal Patents  
Wilmington, DE 19898

EXAMINER
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FULLER, ERIC B

ART UNIT	PAPER NUMBER
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1762

DATE MAILED: 04/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/856,345

Applicant(s)

FRANKE ET AL.

Examiner

Eric B. Fuller

Art Unit

1762

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 January 2005.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 11-16, 18 and 20 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 11-16, 18 and 20 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11-16, 18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shvartsman (EP 0 439 050 A2) in view of Wreede et al. (US 4,878,719) and Lewis et al. (US 4,519,065).

Shvartsman discloses a process for making a hologram by applying a radically curable coating agent to the surface of a transparent substrate, embossing the coated surface by pressing it with an embossing die and then passing actinic radiation through the transparent substrate so as to cure the film while it is in contact with the embossing die, and then separating the die from the photohardened film (abstract). It is explicitly taught that the die may be formed from an optically transparent material (page 7, lines 14-25). Shvartsman does not specifically teach the pattern of the die, however the pattern of the die impresses a desired pattern upon the surface of the substrate. The pattern formed on the substrate is a design choice, and is selected by the manufacturer to serve the appropriate purpose. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to select a die press with a certain relief pattern that forms the specified pattern on the substrate. The reference

teaches that the radiation is UV light (page 8, lines 45-52). This reads on the applicant's wavelength range. As the coating agent is curable by UV radiation, it is capable of being cured by thermal means. Shvartsman teaches a clear protective layer applied to the embossed layer (page 6, lines 34-45). As step E of the claims is only an optional step, as "if necessary" indicates, the teaching of the protective layer being applied to the embossed layer is sufficient to read on applying this layer before and/or after this optional step.

The reference fails to explicitly teach that the substrate is a motor vehicle part. However, Wreede discloses applying holograms to wheel covers of automobiles in order to provide a design to the hubcaps (abstract). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to apply the hologram of Shvartsman to a wheel cover, which reads on darkly lacquered. By doing so, one would reap the benefits of applying a design to the hubcaps of an automobile.

The combined references fail to explicitly teach that the radiation used for curing is passed through the transparent die. However, Lewis teaches that radiation for curing may occur through the transparent die such that films may be deposited on non-transparent substrates as well. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to radiate through the transparent substrate taught by Shvartsman. By doing so, the holograms may be applied to non-transparent substrates as well, such as the hubcaps of Wreede.

Claims 11-16, 18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gili (US 5,318,807) in view of Wreede et al. (US 4,878,719).

Gili discloses a process for making ultra-fine interference patterns by applying a radically curable coating agent to the surface of a substrate, embossing the coated surface by pressing it with a transparent embossing die and then passing UV radiation through the transparent die so as to cure the film while it is in contact with the embossing die, and then separating the die from the photohardened film (column 5, line 15 - column 6, line 8). Ultra-fine reads on the pattern spacing limitation.

The reference fails to explicitly teach that the substrate is a motor vehicle part. However, Wreede discloses applying ultra-fine interference patterns to the wheel covers of automobiles in order to provide decorated hubcaps (abstract). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to applying the substrate, with the interference pattern, of Gili to a hubcap. By doing so, one would reap the benefits of decorating a hubcap. As the substrate is applied to the vehicle, it now reads on being a vehicle "part thereof".

### ***Response to Arguments***

Applicant argues that the cited prior art of the previous Office Action fails to teach the claims as they have been amended. Examiner agrees and has withdrawn the rejections of the previous Office Action. Applicant's arguments are moot in view of the new grounds of rejection.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B. Fuller whose telephone number is (571) 272-1420. The examiner can normally be reached on Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Meeks, can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



EBF



**TIMOTHY MEEKS**  
**SUPERVISORY PATENT EXAMINER**